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NOTICE OF ALLOWANCE AND FEE(S) DUE

40987

7590

11/06/2009

Novak Druce + Quigg LLP
CityPlace Tower, 525 Okeechobee Blvd.
Fifteenth-Flor
WEST PALM BEACH, FL 33401

EXAMINER

BORSUTTI, GREG

ART UNIT

PAPER NUMBER

2626

DATE MAILED: 11/06/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/777,263	02/12/2004	Kazuo Aoki	J99-2002-0244US1 (466)	5410

TITLE OF INVENTION: MORPHOLOGICAL ANALYZER, NATURAL LANGUAGE PROCESSOR, MORPHOLOGICAL ANALYSIS METHOD AND PROGRAM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/08/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE** OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** **Mail Stop ISSUE FEE**
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

40987 7590 11/06/2009
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Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

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nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/08/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
BORSETTI, GREG	2626	704-010000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a **Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY AND STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____
 Typed or printed name _____ Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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40987	7590	11/06/2009	EXAMINER	
Novak Druce + Quigg LLP CityPlace Tower, 525 Okeechobee Blvd. Fifteenth-Floor WEST PALM BEACH, FL 33401			BORSLETTI, GREG	
			ART UNIT	PAPER NUMBER
			2626	

DATE MAILED: 11/06/2009

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 785 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 785 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability**Application No.**

10/777,263

Examiner

GREG A. BORSETTI

Applicant(s)

AOKI ET AL.

Art Unit

2626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/28/2009.
2. ☒ The allowed claim(s) is/are 17-21 and 25-27.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/Greg A. Borsetti/
Examiner, Art Unit 2626

/Talivaldis Ivars Smits/
Primary Examiner, Art Unit 2626

DETAILED ACTION

Response to Amendment

1. Claims 17-21, and 25-27 are pending.
2. Claim 17 has been amended.
3. Claims 22-24 have been canceled.
4. Claims 25-27 have been added.
5. The 35 USC 101 rejections to claims 17-20 have been withdrawn in view of the submitted amendments (7/28/2009) further directing the method claim to a statutory embodiment tied to a computer having a memory.
6. The 35 USC 101 rejections to claims 23-24 have been withdrawn in view of the submitted amendments (7/28/2009) cancelling these claims.
7. The objections to claims 17, 22-23 have been withdrawn in view of the submitted amendments (7/28/2009).
8. Claim 27 has been considered for compliance under 35 USC 101. The claim is directed to a computer readable medium being stored on the mediums listed in the specification (§ 0041) or distributed via a network. Therefore the claim is statutory because it is not being stored on the distribution media over the network (not directed to a storage on a carrier wave or transmission media).

Continued Examination Under 37 CFR 1.114

9. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set

forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/28/2009 has been entered.

EXAMINER'S AMENDMENT

10. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with G. Nelson on 8/28/2009.

The application has been amended as follows:

Claim 17, line 4, delete "selecting whether" and substitute therefor –selecting, using a processor, whether–

Reasons for Allowance

11. The following is an examiner's statement of reasons for allowance:

As per claim 17, the closest known prior art fails to teach or fairly suggest alone or in reasonable combination: A method of performing morphological analysis on a natural language text string using a computer having a memory, the method comprising:

selecting, using a processor, whether or not to decompose a decomposable

complex word in response to a request from a natural language processing application that utilizes a morphological analysis result;

receiving the natural language text string to be processed, wherein the text string is in an agglutinative language and comprises more than one complex word, wherein each complex word comprises a linguistic unit having a semantic meaning;

decomposing the received text string into tokens and storing the tokens in a work area of the memory;

when it is selected not to decompose a decomposable complex word, determining whether each token is decomposable;

if a token is not decomposable, registering the non-decomposable token on a token list stored in a given area of the memory;

generating token strings based on the token list and storing the token strings in the work area of the memory;

selecting the optimum token string strings from the generated token strings based; and

outputting the selected optimum token strings to the natural language processing application for further processing.

Frisch teaches spelling assistance for compounds words. Frisch further teaches the decomposition of compound words into tokens. Frisch, however, fails to teach selecting, using a processor, whether or not to decompose a decomposable complex

word in response to a request from a natural language processing application that utilizes a morphological analysis result.

Baker teaches a speech recognition system for languages with compound words. Baker, columns 5-6, lines 63-67, 1-5 further teaches the use of user input to determine when to decompose a complex/compound word for an application in speech recognition. Baker, however, fails to teach selecting, using a processor, whether or not to decompose a decomposable complex word in response to a request from a natural language processing application that utilizes a morphological analysis result.

Kwon teaches the decomposition of complex/compound words in an agglutinative language. Kwon fails to teach selecting, using a processor, whether or not to decompose a decomposable complex word in response to a request from a natural language processing application that utilizes a morphological analysis result.

Claims 18-21, and 25 are also allowable for depending on, and further limiting allowable claim 17.

As per claim 26, the closest known prior art fails to teach or fairly suggest alone or in reasonable combination: A computer system for performing morphological analysis on a natural language text string, the computer system comprising:

a memory; and

a processor configured to: select whether or not to decompose a decomposable complex word in response to a request from a natural language processing application that utilizes a morphological analysis result;

receive the natural language text string to be processed, wherein the text string is in an agglutinative language and comprises more than one complex word, wherein each complex word comprises a linguistic unit having a semantic meaning;

decompose the received text string into tokens and storing the tokens in a work area of the memory;

when it is selected not to decompose a decomposable complex word, determine whether each token is decomposable;

if a token is not decomposable, register the non-decomposable token on a token list stored in a given area of the memory;

generate token strings based on the token list and storing the token strings in the work area of the memory;

select optimum token strings from the generated token strings; and

output the selected optimum token strings to the natural language processing application for further processing.

Frisch teaches spelling assistance for compounds words. Frisch further teaches the decomposition of compound words into tokens. Frisch, however, fails to teach a processor configured to: select whether or not to decompose a decomposable complex

word in response to a request from a natural language processing application that utilizes a morphological analysis result

Baker teaches a speech recognition system for languages with compound words. Baker, columns 5-6, lines 63-67, 1-5 further teaches the use of user input to determine when to decompose a complex/compound word for an application in speech recognition. Baker, however, fails to teach a processor configured to: select whether or not to decompose a decomposable complex word in response to a request from a natural language processing application that utilizes a morphological analysis result.

Kwon teaches the decomposition of complex/compound words in an agglutinative language. Kwon fails to teach a processor configured to: select whether or not to decompose a decomposable complex word in response to a request from a natural language processing application that utilizes a morphological analysis result.

As per claim 26, the closest known prior art fails to teach or fairly suggest alone or in reasonable combination: A computer-readable medium, having stored thereon a computer program having a plurality of code sections executable by a computer for causing the computer to perform the steps of:

selecting whether or not to decompose a decomposable complex word in response to a request from a natural language processing application that utilizes a morphological analysis result;

receiving the natural language text string to be processed, wherein the text string is in an agglutinative language and comprises more than one complex word, wherein each complex word comprises a linguistic unit having a semantic meaning;

decomposing the received text string into tokens and storing the tokens in a work area of a memory of the computer;

when it is selected not to decompose a decomposable complex word, determining whether each token is decomposable;

if a token is not decomposable, registering the non-decomposable token on a token list stored in a given area of the memory;

generating token strings based on the token list and storing the token strings in the work area of the memory;

selecting optimum token strings from the generated token strings; and

outputting the selected optimum token strings to the natural language processing application for further processing.

Frisch teaches spelling assistance for compounds words. Frisch further teaches the decomposition of compound words into tokens. Frisch, however, fails to teach a plurality of code sections executable by a computer for causing the computer to perform the steps of: selecting whether or not to decompose a decomposable complex word in response to a request from a natural language processing application that utilizes a morphological analysis result.

Baker teaches a speech recognition system for languages with compound words. Baker, columns 5-6, lines 63-67, 1-5 further teaches the use of user input to determine when to decompose a complex/compound word for an application in speech recognition. Baker, however, fails to teach a plurality of code sections executable by a computer for causing the computer to perform the steps of: selecting whether or not to decompose a decomposable complex word in response to a request from a natural language processing application that utilizes a morphological analysis result.

Kwon teaches the decomposition of complex/compound words in an agglutinative language. Kwon fails to teach a plurality of code sections executable by a computer for causing the computer to perform the steps of: selecting whether or not to decompose a decomposable complex word in response to a request from a natural language processing application that utilizes a morphological analysis result.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GREG A. BORSETTI whose telephone number is

(571)270-3885. The examiner can normally be reached on Monday - Thursday (8am - 5pm Eastern Time).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHEMOND DORVIL can be reached on 571-272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Greg A. Borsetti/
Examiner, Art Unit 2626

/Talivaldis Ivars Smits/
Primary Examiner, Art Unit 2626

10/7/2009